

FIG. 1

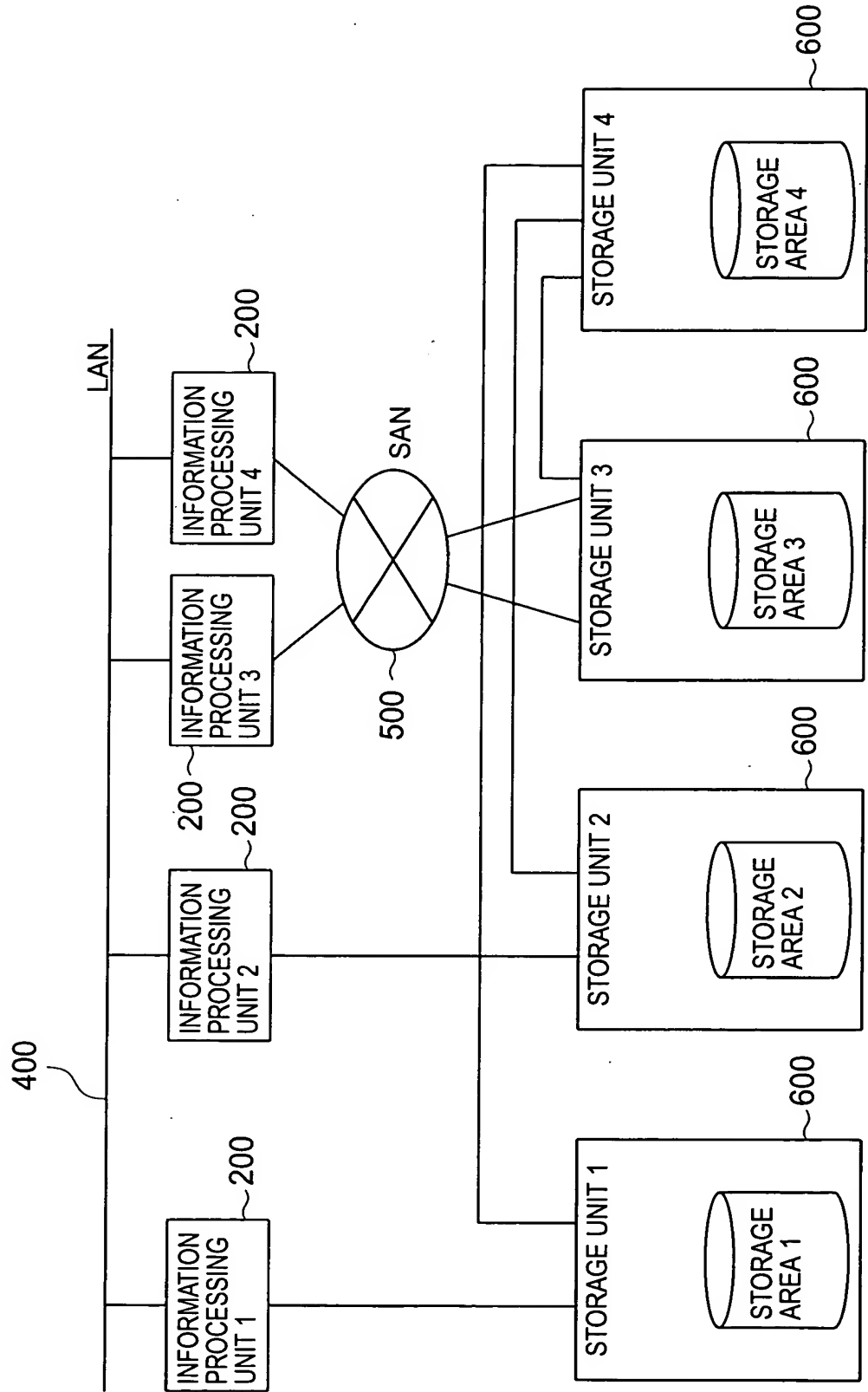


FIG. 2

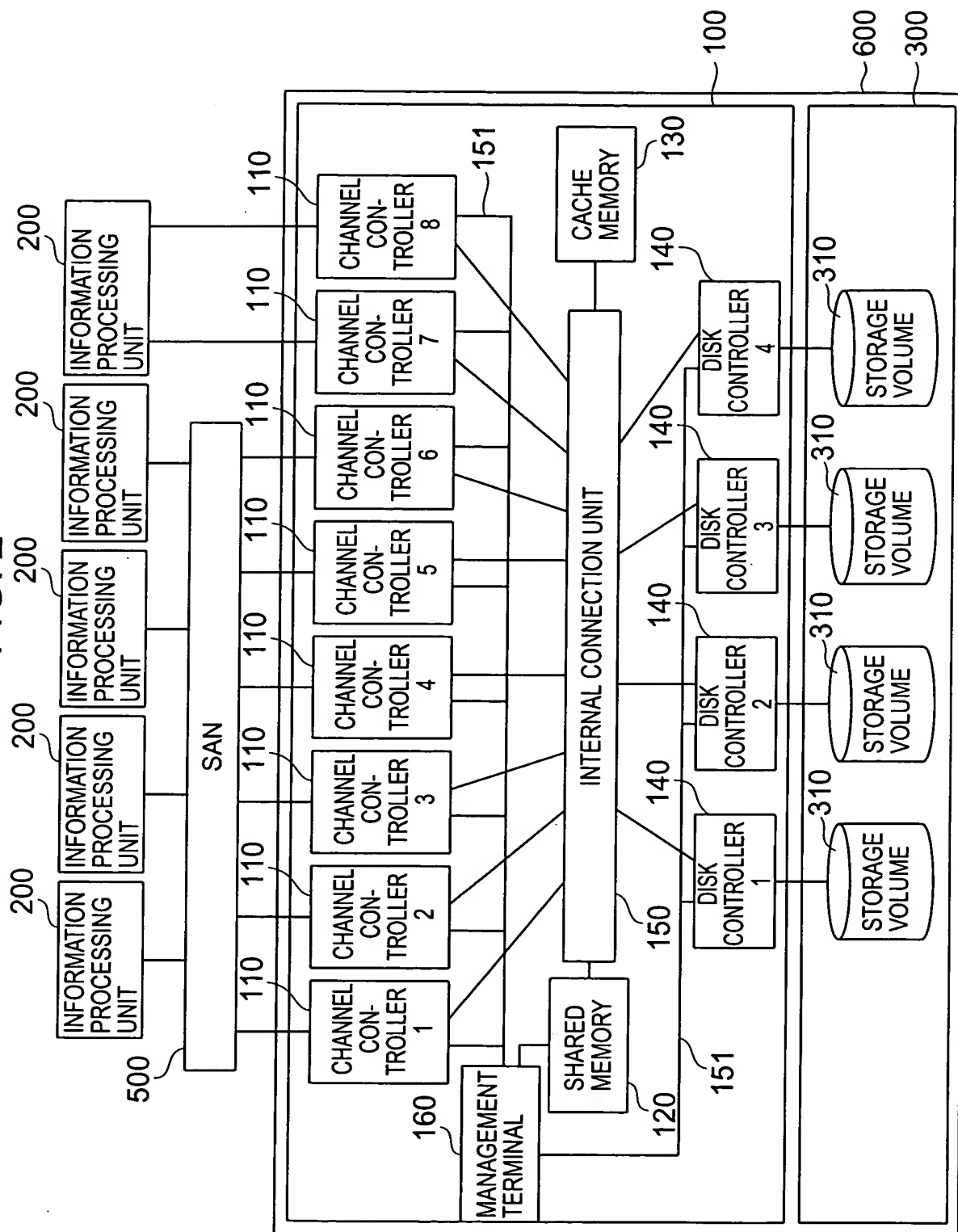


FIG. 3

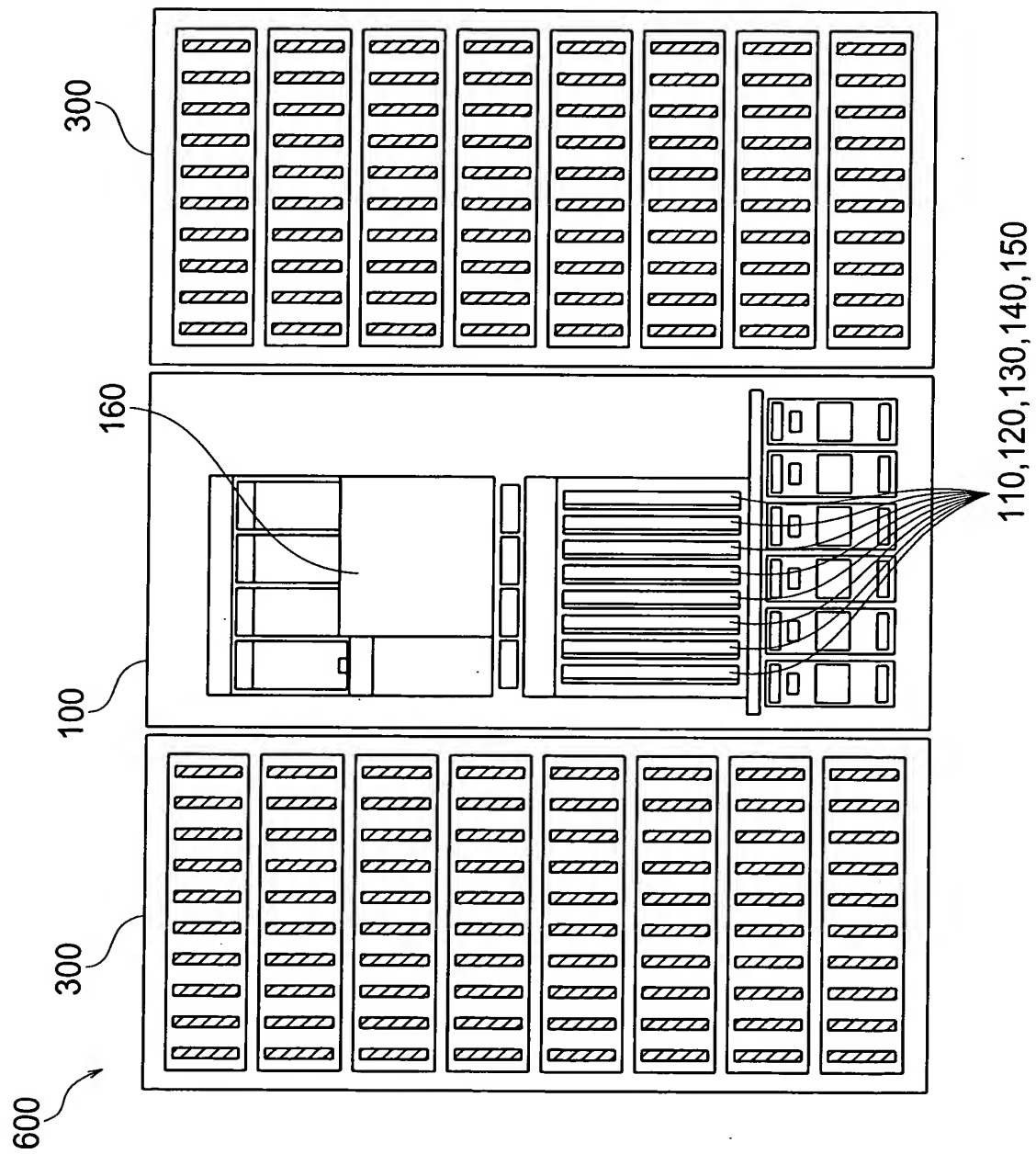


FIG. 4

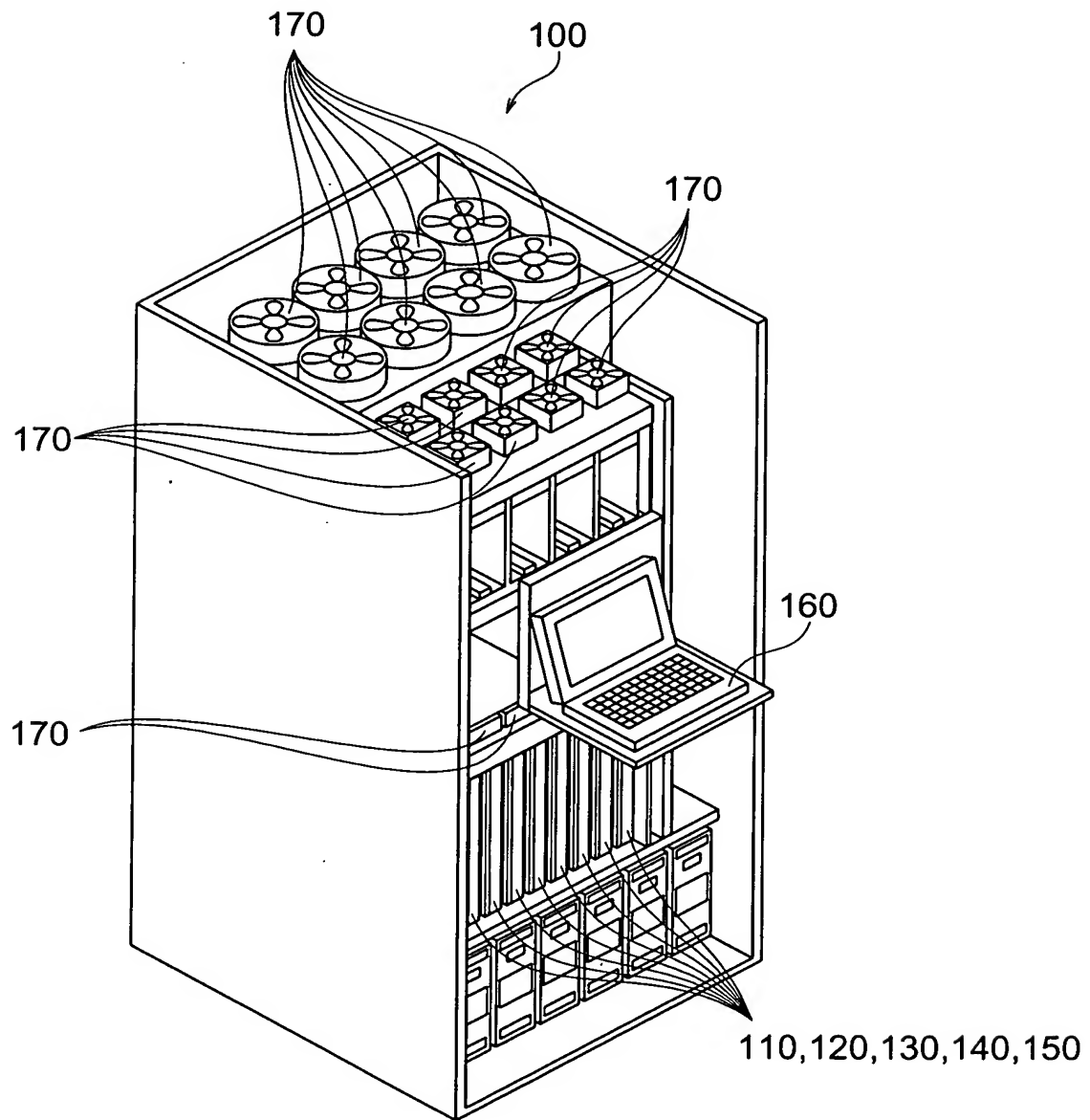


FIG. 5

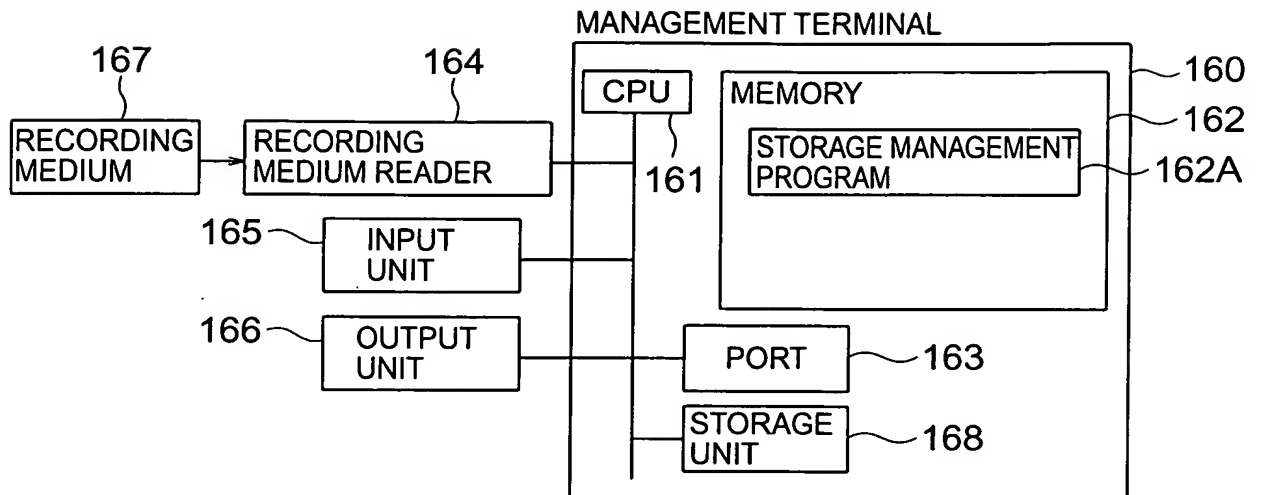


FIG. 6

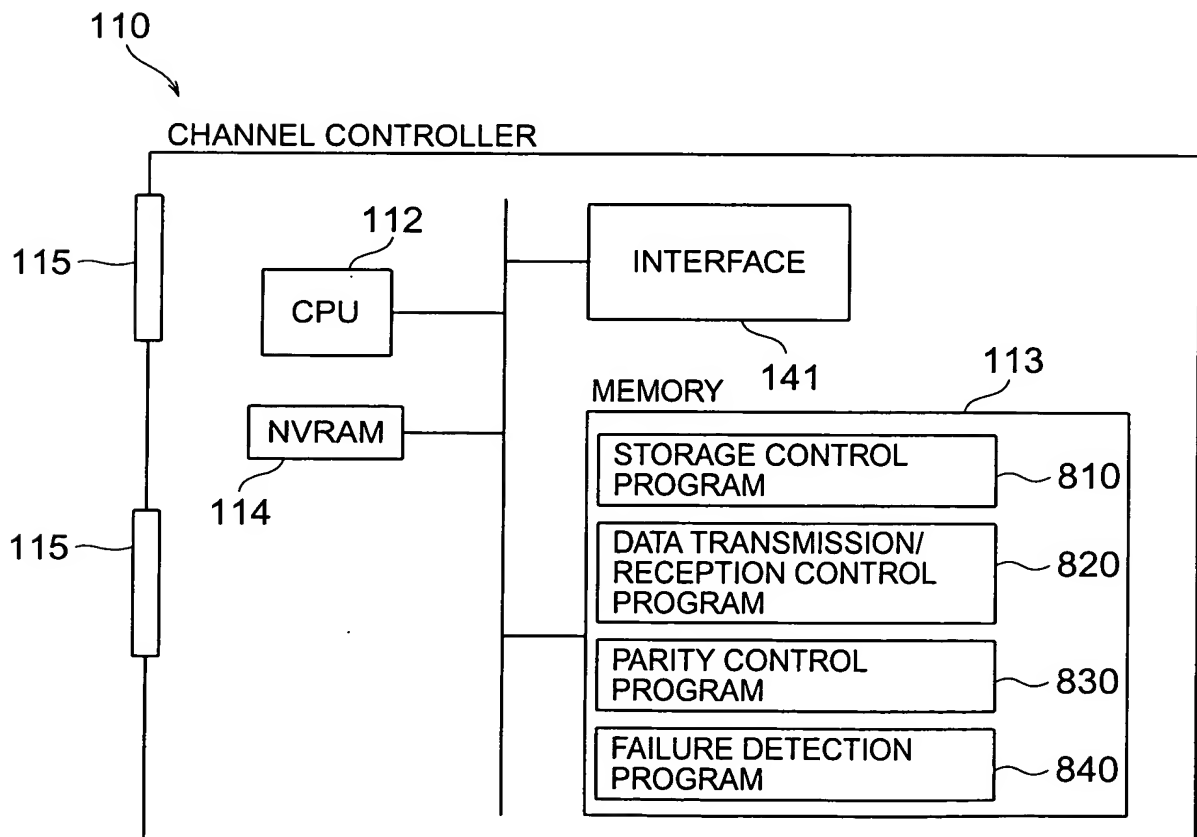


FIG. 7

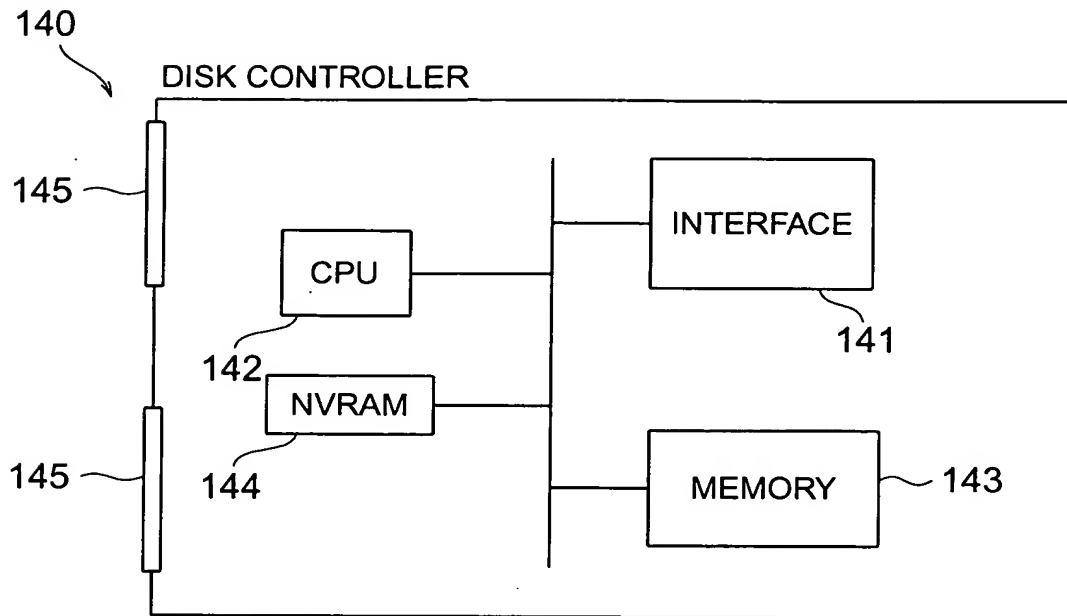


FIG. 8

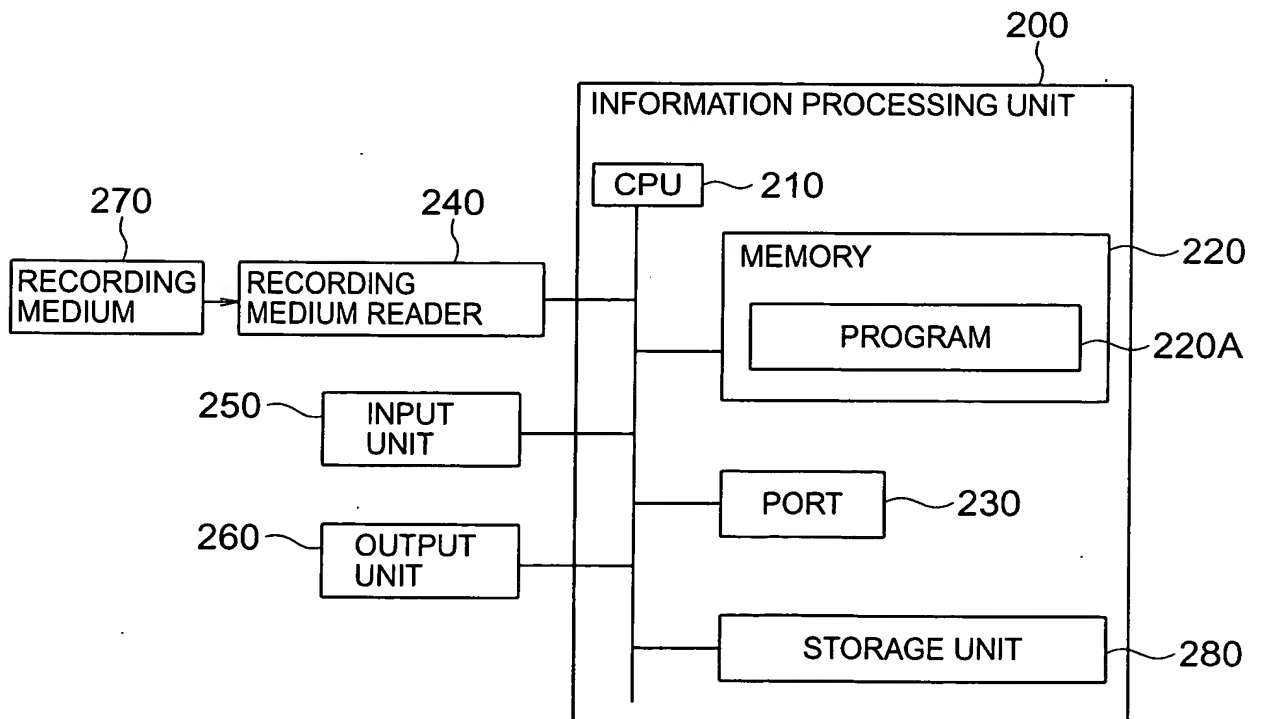


FIG. 9

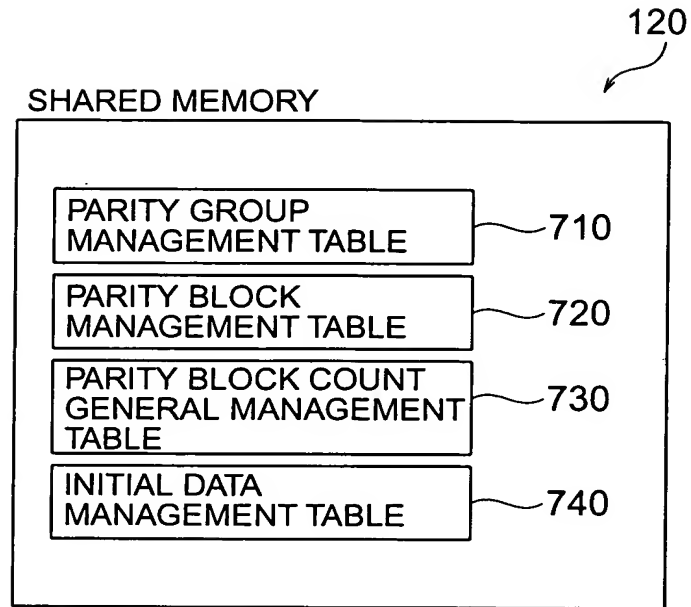


FIG. 10

710

PARITY GROUP MANAGEMENT TABLE

DATA STORING STORAGE UNIT	STORAGE UNIT 1, STORAGE UNIT 2, STORAGE UNIT 3
PARITY STORING STORAGE UNIT	STORAGE UNIT 4

FIG. 11

720

PARITY BLOCK MANAGEMENT TABLE

PARITY BLOCK LENGTH = 512 BYTES	
NUMBER OF PARITY BLOCKS = 800000	
LOGICAL VOLUME NUMBER	FIRST PARITY BLOCK NUMBER
0000	0
0001	4096
0002	16384
0003	40000
0004	81920
⋮	⋮

FIG. 12

730

PARITY BLOCK COUNT
GENERAL MANAGEMENT TABLE

STORAGE UNIT	NUMBER OF PARITY BLOCKS
STORAGE UNIT 1	500000
STORAGE UNIT 2	600000
STORAGE UNIT 3	700000
STORAGE UNIT 4	800000

FIG. 13A

740

INITIAL DATA MANAGEMENT TABLE

STORAGE UNIT	RECALCULATION
STORAGE UNIT 1	OFF
STORAGE UNIT 2	OFF
STORAGE UNIT 3	ON
⋮	⋮

FIG. 13B

740

INITIAL DATA MANAGEMENT TABLE

STORAGE UNIT	RECALCULATION	RECALCULATION
STORAGE UNIT 1	OFF	—
STORAGE UNIT 2	OFF	—
STORAGE UNIT 3	ON	123456
⋮	⋮	⋮

FIG. 13C

740

INITIAL DATA MANAGEMENT TABLE

STORAGE UNIT	RECALCULATION
STORAGE UNIT 1	OFF
STORAGE UNIT 2	OFF
STORAGE UNIT 3	ON
⋮	⋮

PARITY BLOCK NUMBER	RECALCULATION COMPLETED
0	COMPLETED
1	NOT COMPLETED
2	COMPLETED
⋮	⋮
699999	COMPLETED

FIG. 14

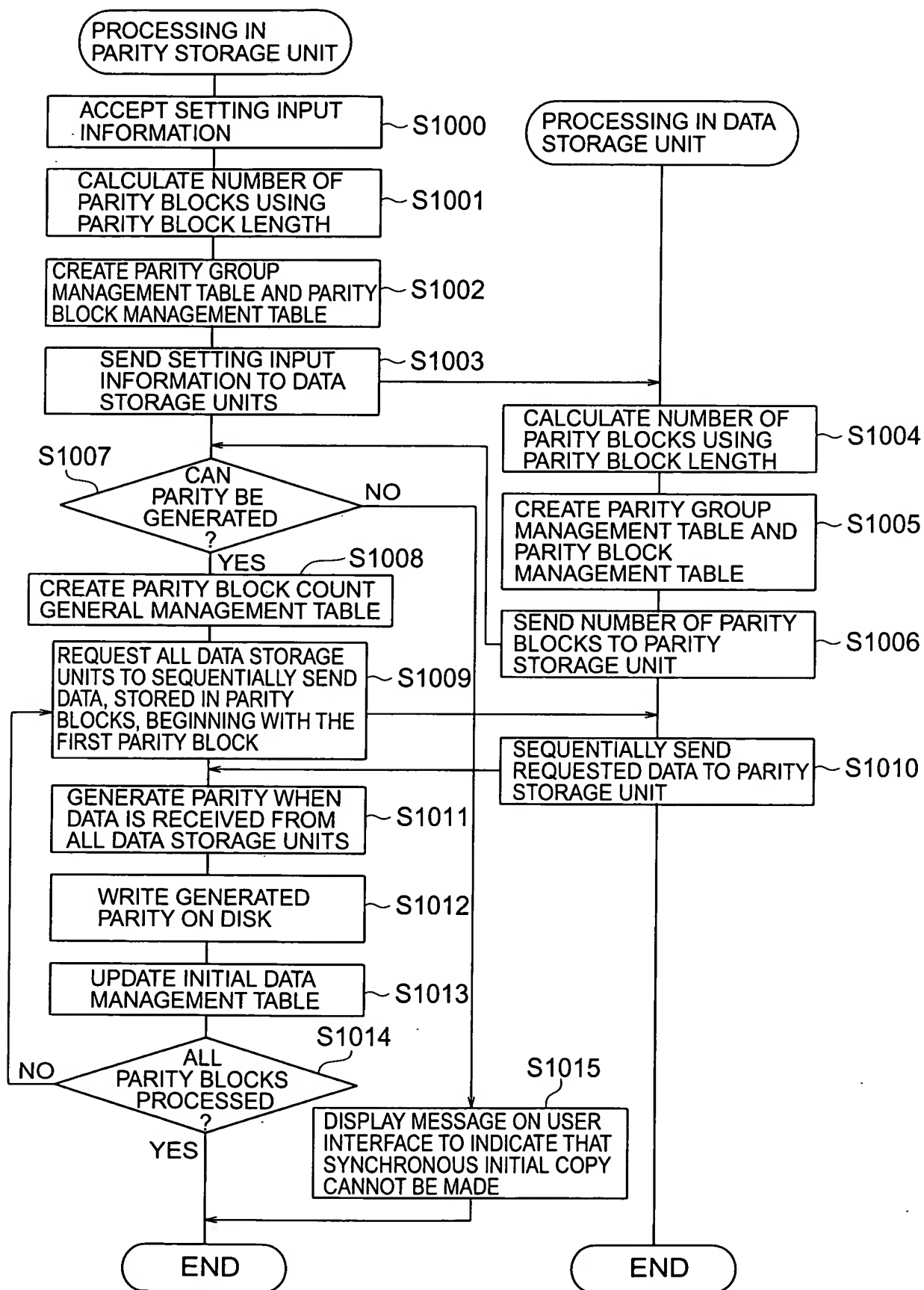


FIG. 15






SYNCHRONOUS SYSTEM PARITY GROUP SETTING SCREEN				
PARITY BLOCK LENGTH	<input type="text" value="512"/>	BYTES		
PARITY GROUP CONFIGURING STORAGE UNITS	<div><div>STORAGE UNIT 1</div><div>STORAGE UNIT 2</div><div>STORAGE UNIT 3</div></div> <div> </div>			
PARITY DATA STORING STORAGE UNIT	<input type="text" value="STORAGE UNIT 4"/>			
INITIALIZATION METHOD	<input type="text" value="SEQUENTIAL"/>			
		<input type="button" value="OK"/>	<input type="button" value="Cancel"/>	

FIG. 16A

PARITY STORAGE UNIT		
PARITY BLOCK LENGTH = 512 BYTES		
STORAGE VOL#	FIRST PB#	
0000	0	
0001	4096	
0002	16384	
0003	40000	
0004	81920	
⋮	⋮	

FIG. 16C

DATA STORAGE UNIT		
PARITY BLOCK LENGTH = 512 BYTES		
STORAGE VOL#	FIRST PB#	
0000	0	
0001	5000	
0002	8000	
0003	10000	
0004	20000	
⋮	⋮	

PARITY STORAGE UNIT		
PARITY BLOCK LENGTH = 512 BYTES		
STORAGE VOL#	FIRST PB#	
0000	0	
0001	4096	
0002	16384	
0003	40000	
0004	81920	
⋮	⋮	

FIG. 16B

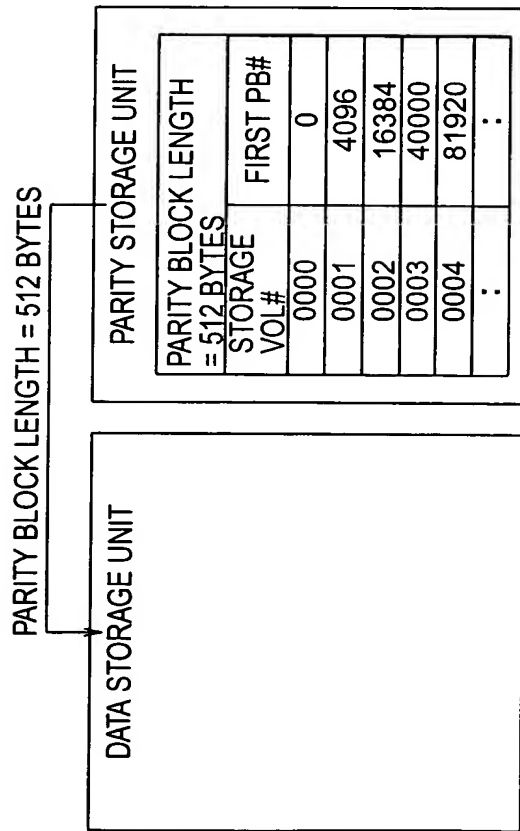


FIG. 16D

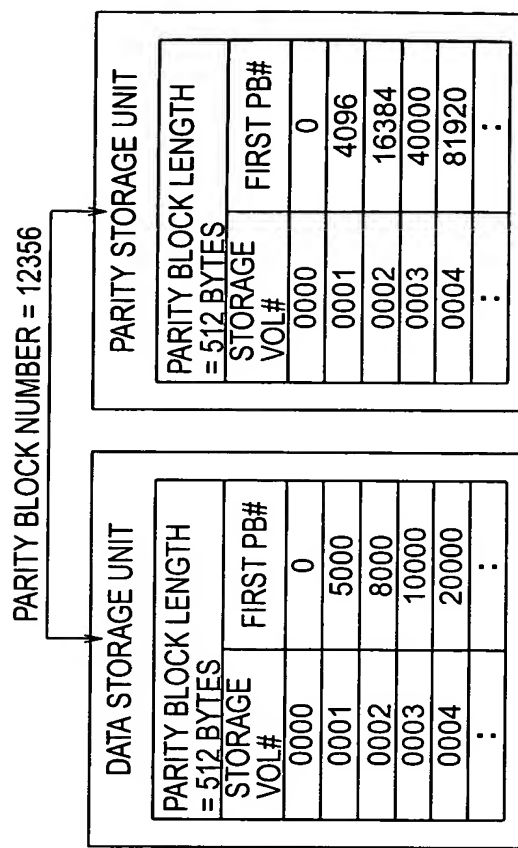


FIG. 17A

PARITY STORAGE UNIT		
PARITY BLOCK LENGTH = 512 BYTES		
STORAGE VOL#	FIRST PB#	
0000	0	
0001	4096	
0002	16384	
0003	40000	
0004	81920	
:	:	

FIG. 17C

DATA STORAGE UNIT		
PARITY BLOCK LENGTH = 512 BYTES		
STORAGE VOL#	FIRST PB#	
0000	0	
0001	5000	
0002	8000	
0003	10000	
0004	20000	
:	:	

NUMBER OF PARITY BLOCKS
= 5000000

PARITY STORAGE UNIT		
PARITY BLOCK LENGTH = 512 BYTES		
STORAGE VOL#	FIRST PB#	
0000	0	
0001	4096	
0002	16384	
0003	40000	
0004	81920	
:	:	

FIG. 17B

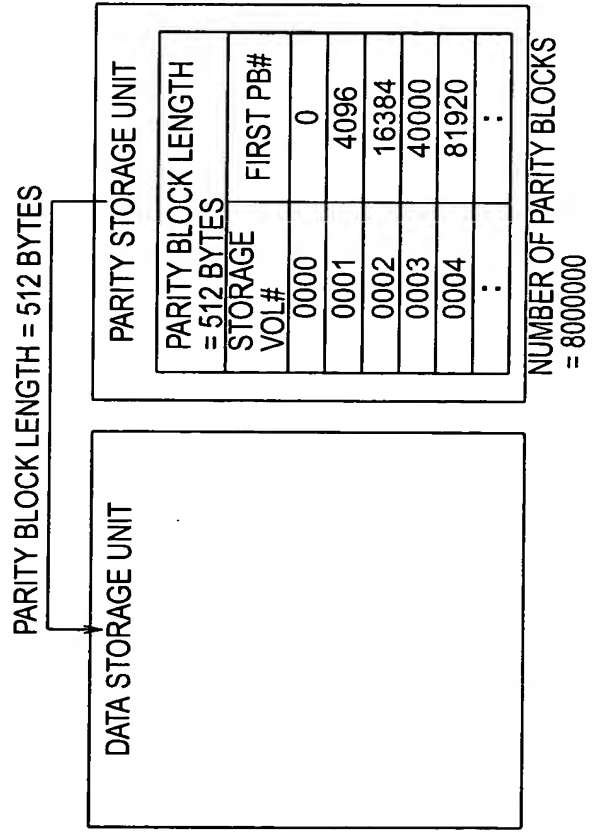
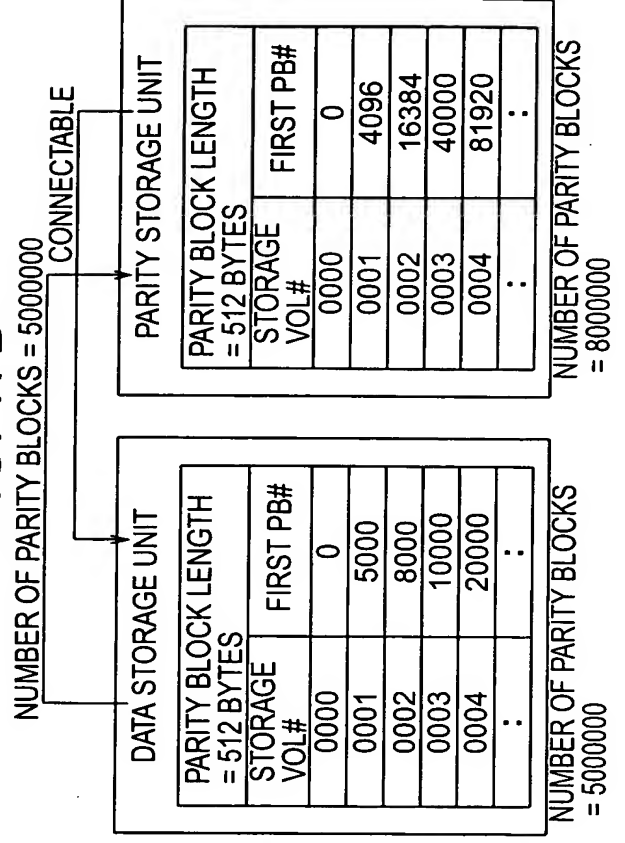


FIG. 17D



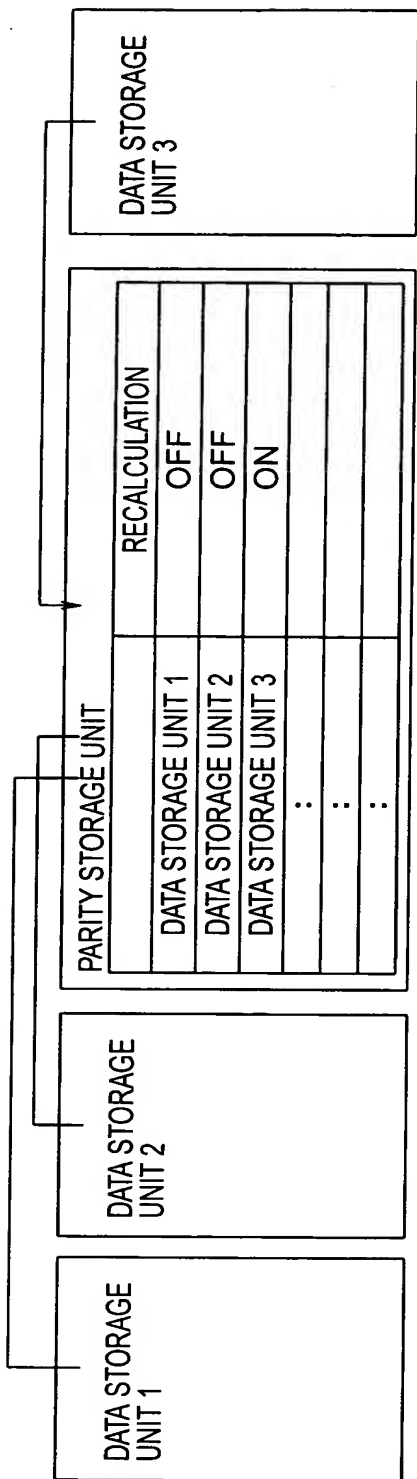


FIG. 18A

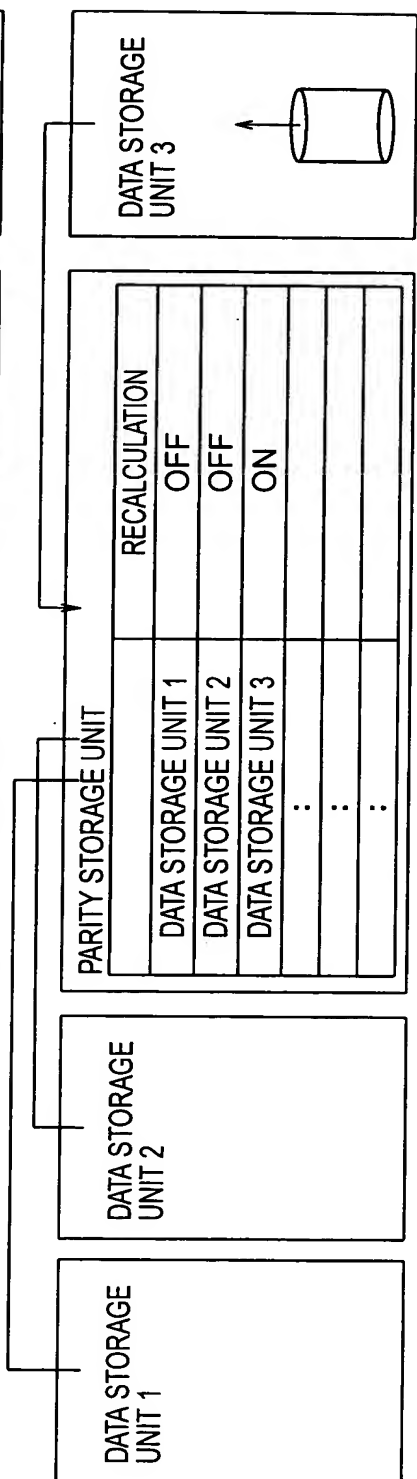


FIG. 18B

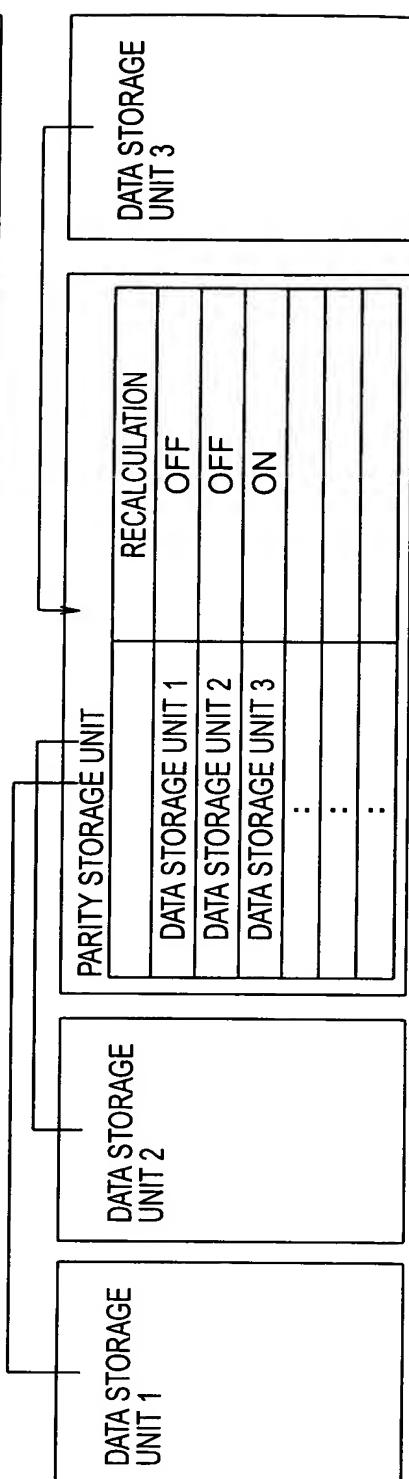


FIG. 18C

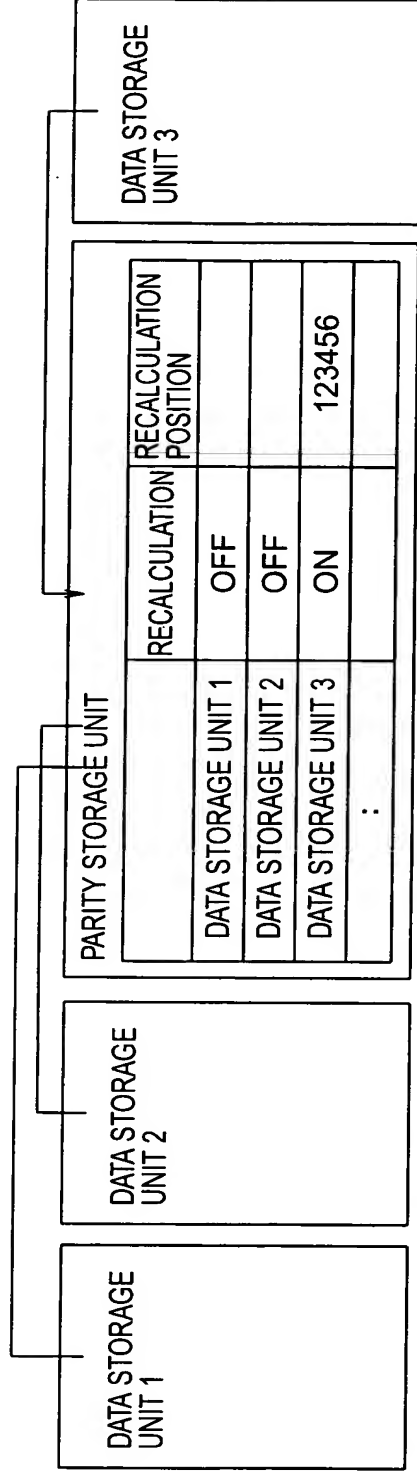


FIG. 19A

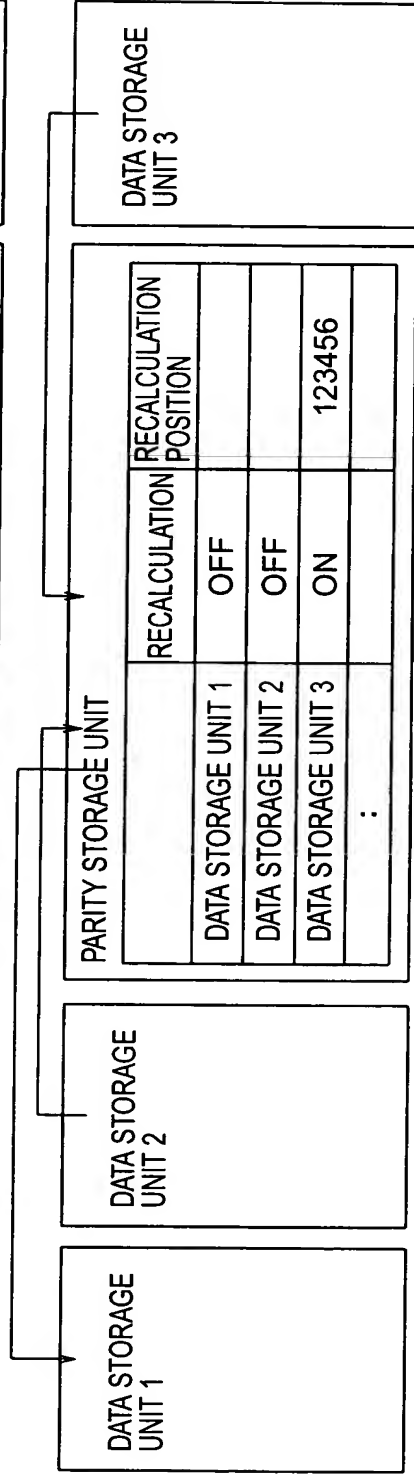


FIG. 19B

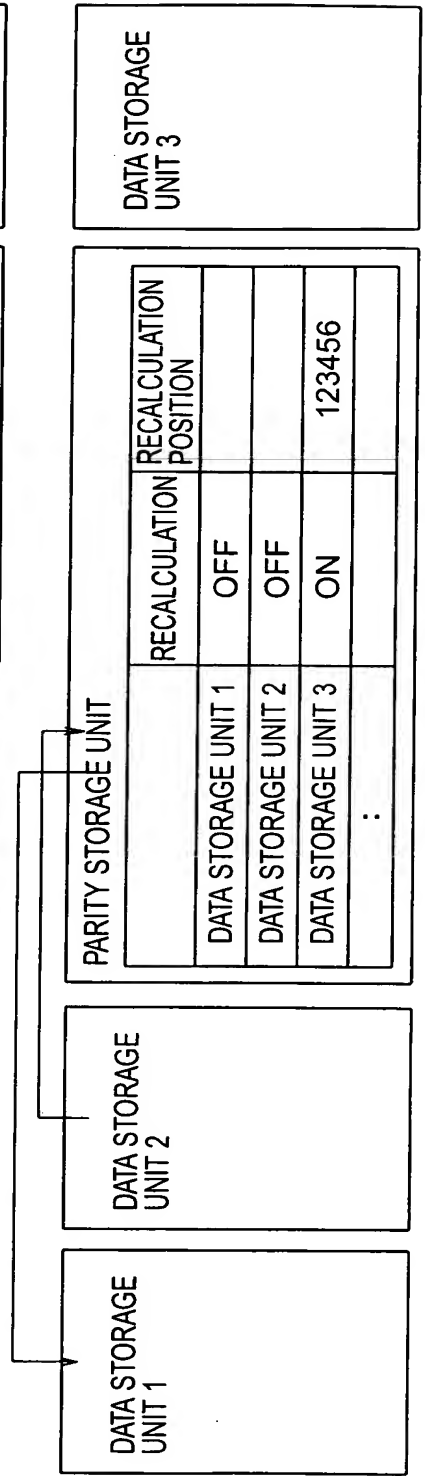


FIG. 19C

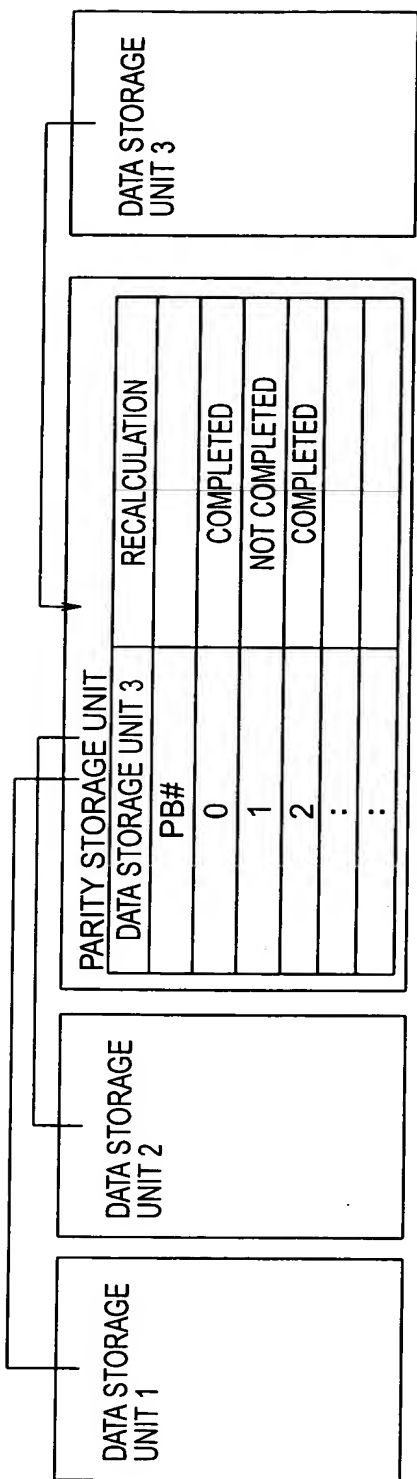


FIG. 20A

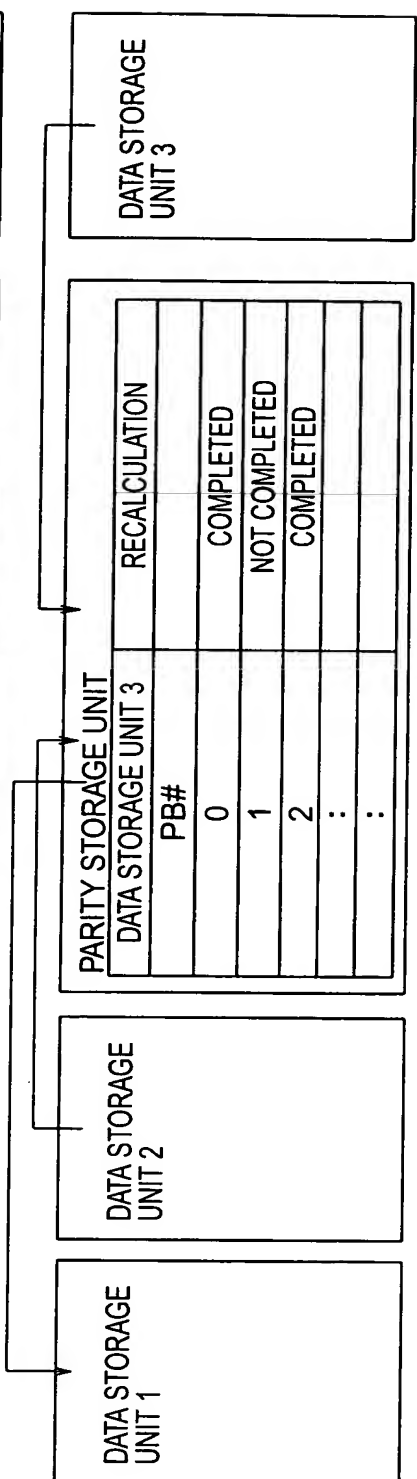


FIG. 20B

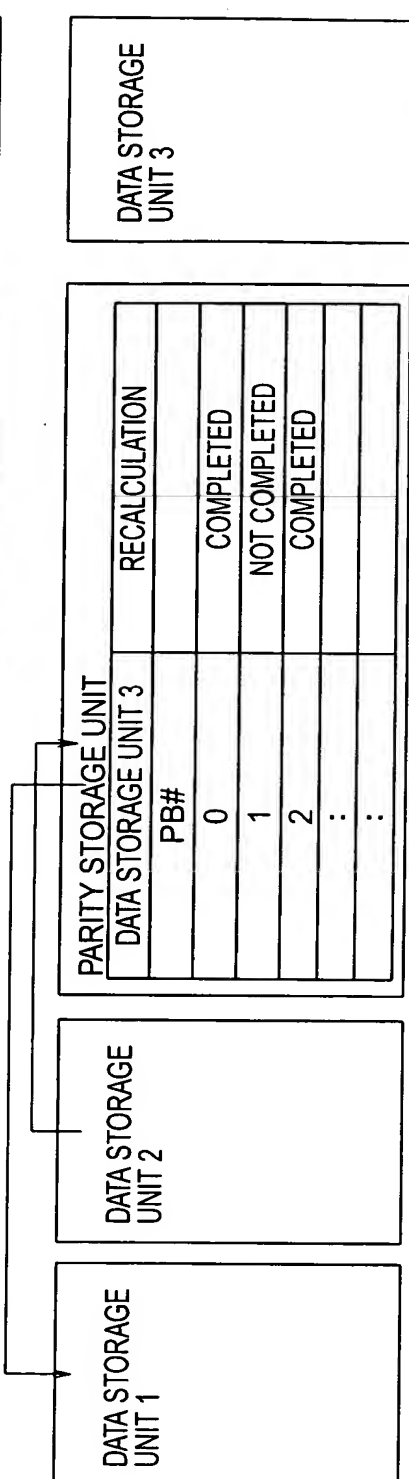


FIG. 20C

FIG. 21

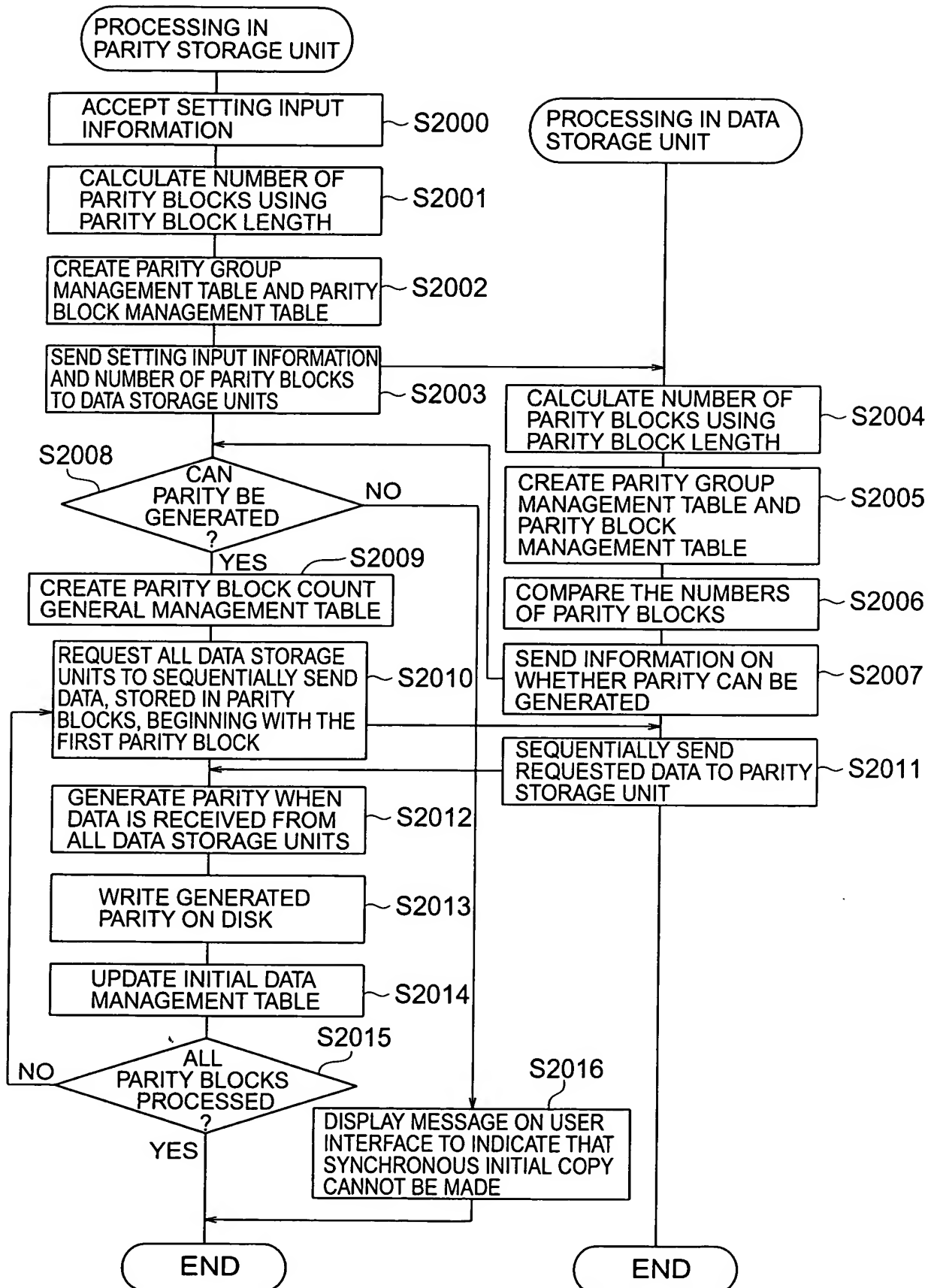


FIG. 22A

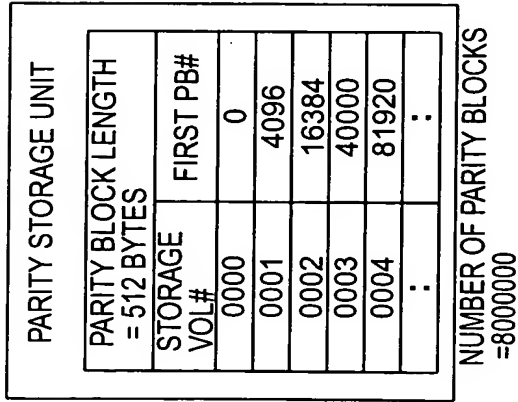


FIG. 22C

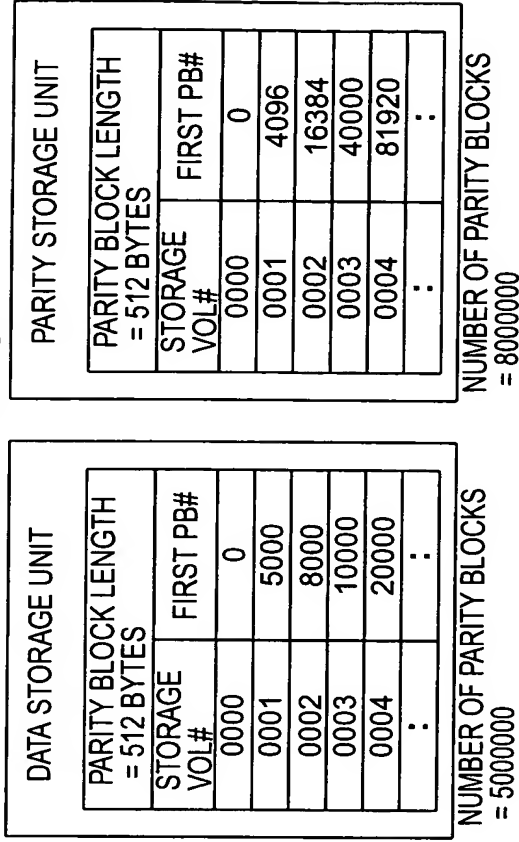


FIG. 22B

PARITY BLOCK LENGTH = 512 BYTES
NUMBER OF PARITY BLOCKS = 800000

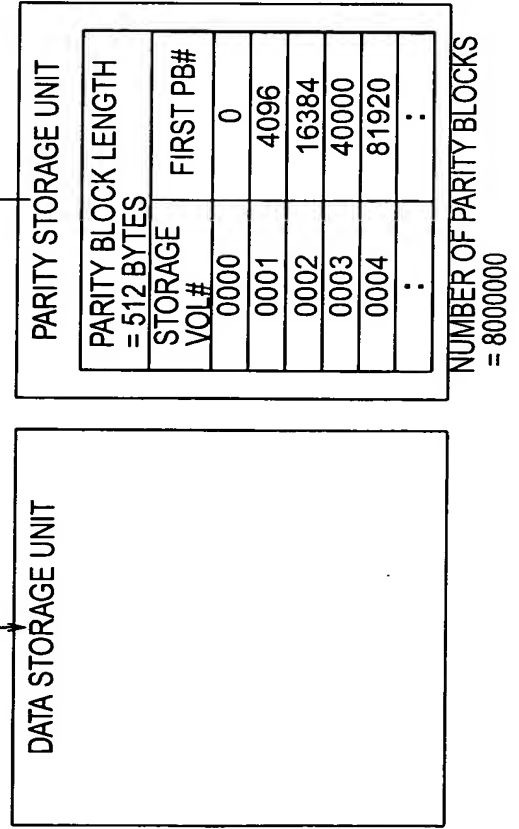


FIG. 22D

CONNECTABLE

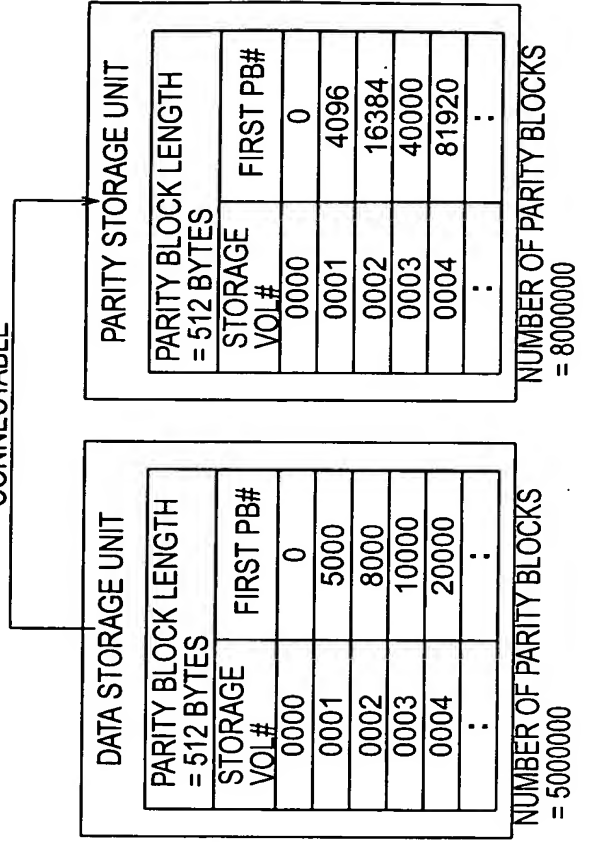


FIG. 23

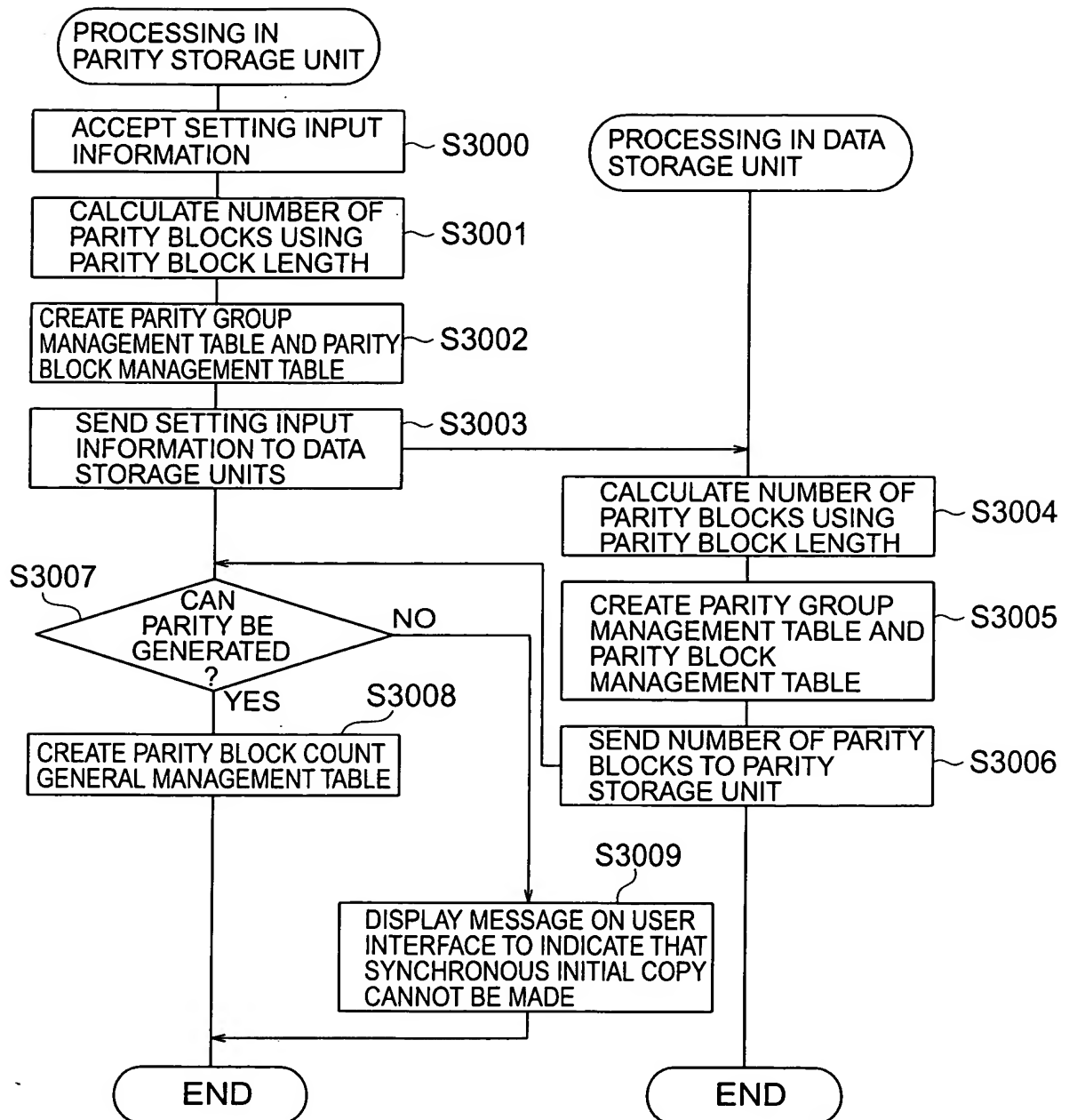


FIG. 24

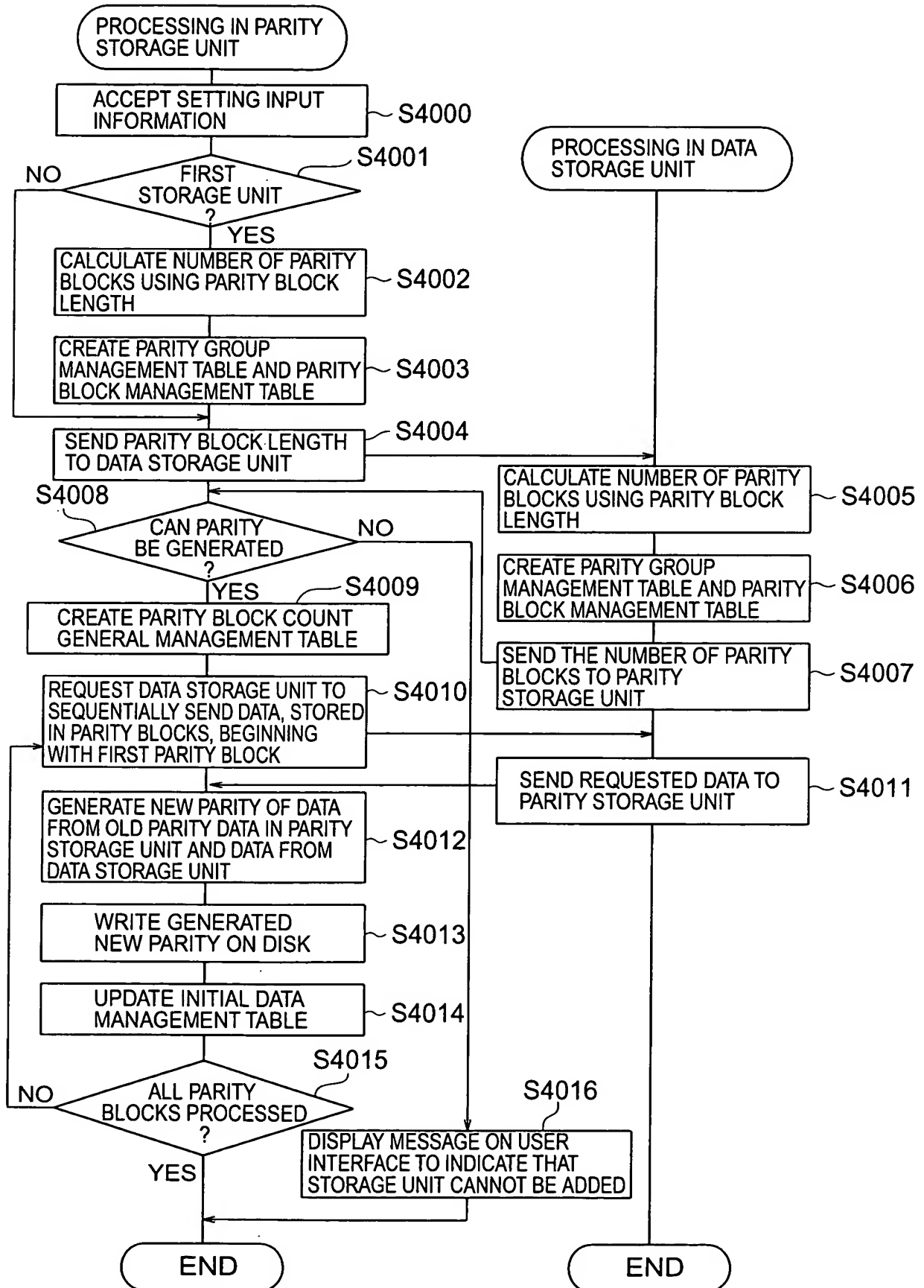


FIG. 25

ASYNCHRONOUS METHOD PARITY GROUP SETTING SCREEN

CURRENT CONFIGURATION

PARITY STORAGE UNIT	STORAGE UNIT 4
DATA STORAGE UNITS	STORAGE UNIT 1, STORAGE UNIT 2
PARITY BLOCK LENGTH	512 BYTES

DATA STORAGE UNIT TO BE ADDED

STORAGE UNIT 3

INITIALIZATION METHOD

RANDOM METHOD

DATA STORAGE UNIT TO BE DELETED

OK

Cancel

FIG. 26

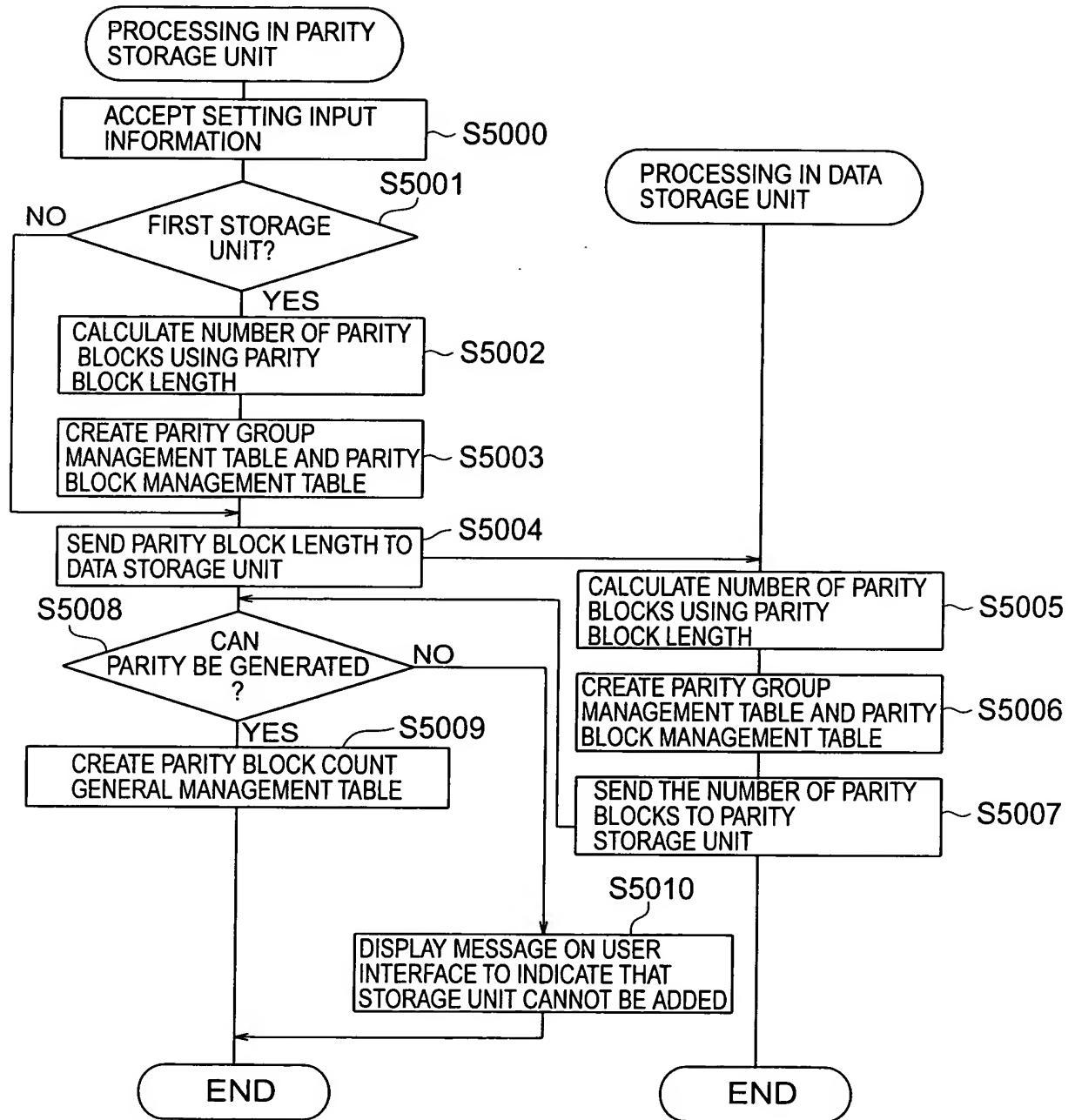


FIG. 27

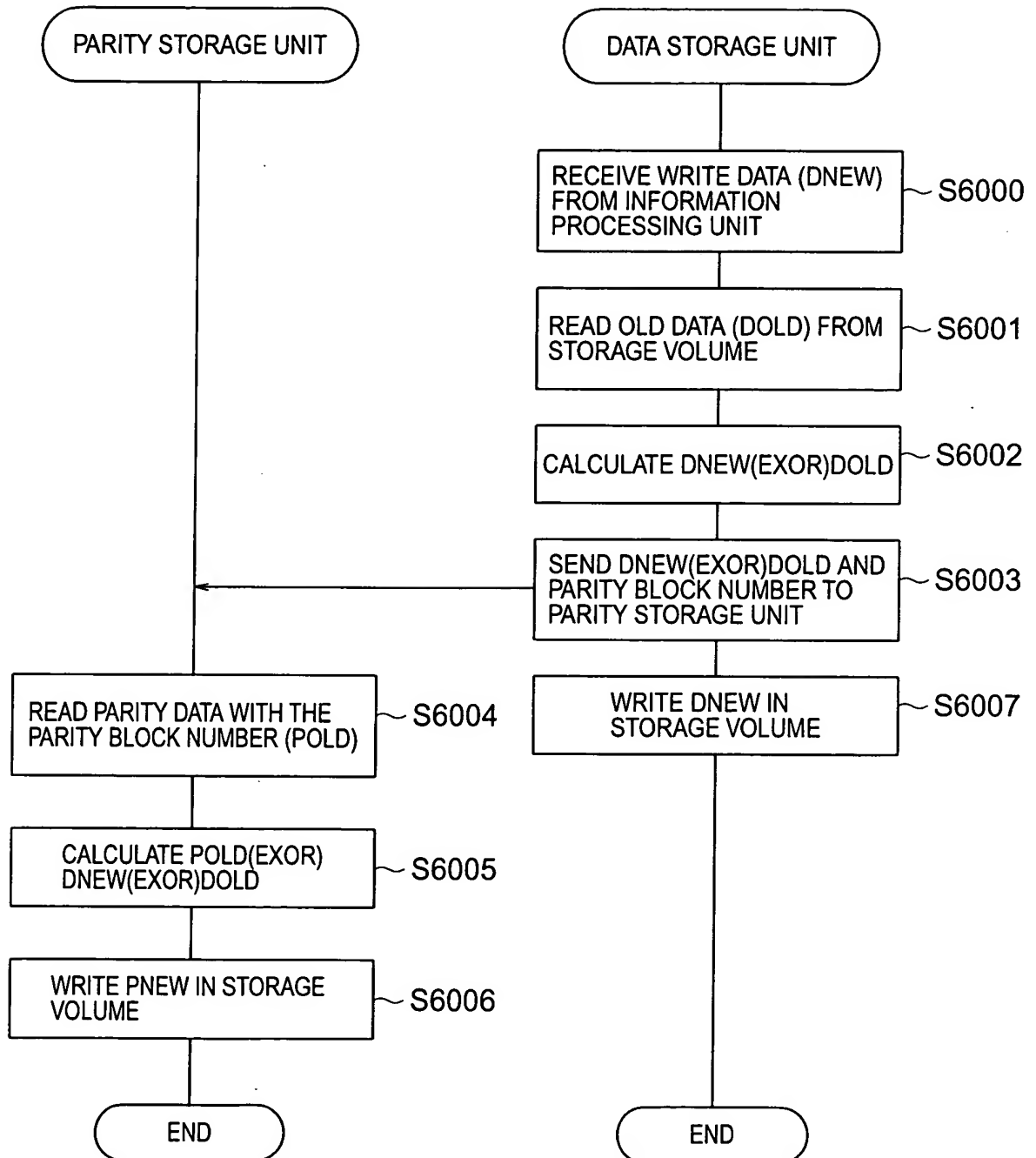


FIG. 28

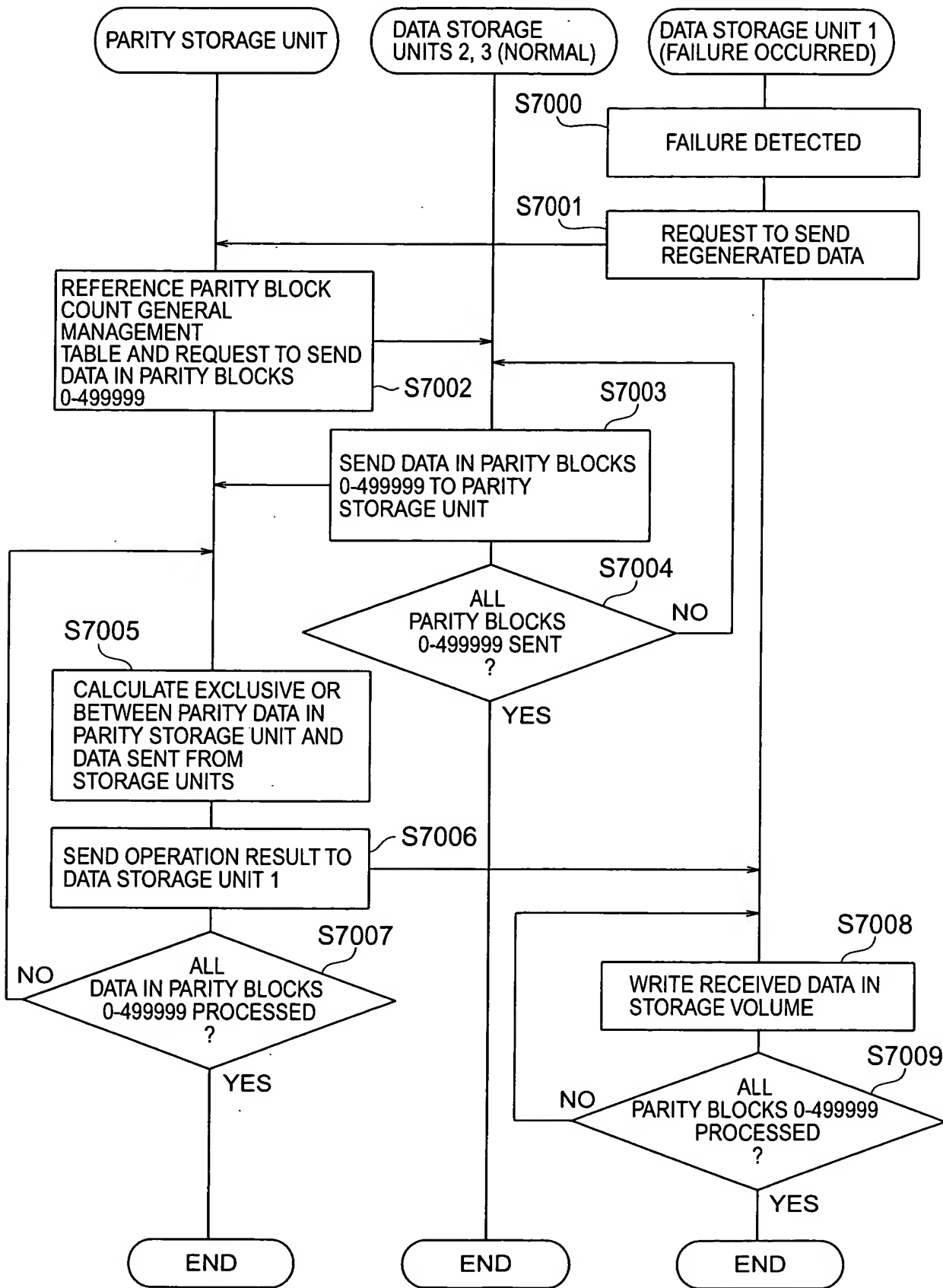


FIG. 29

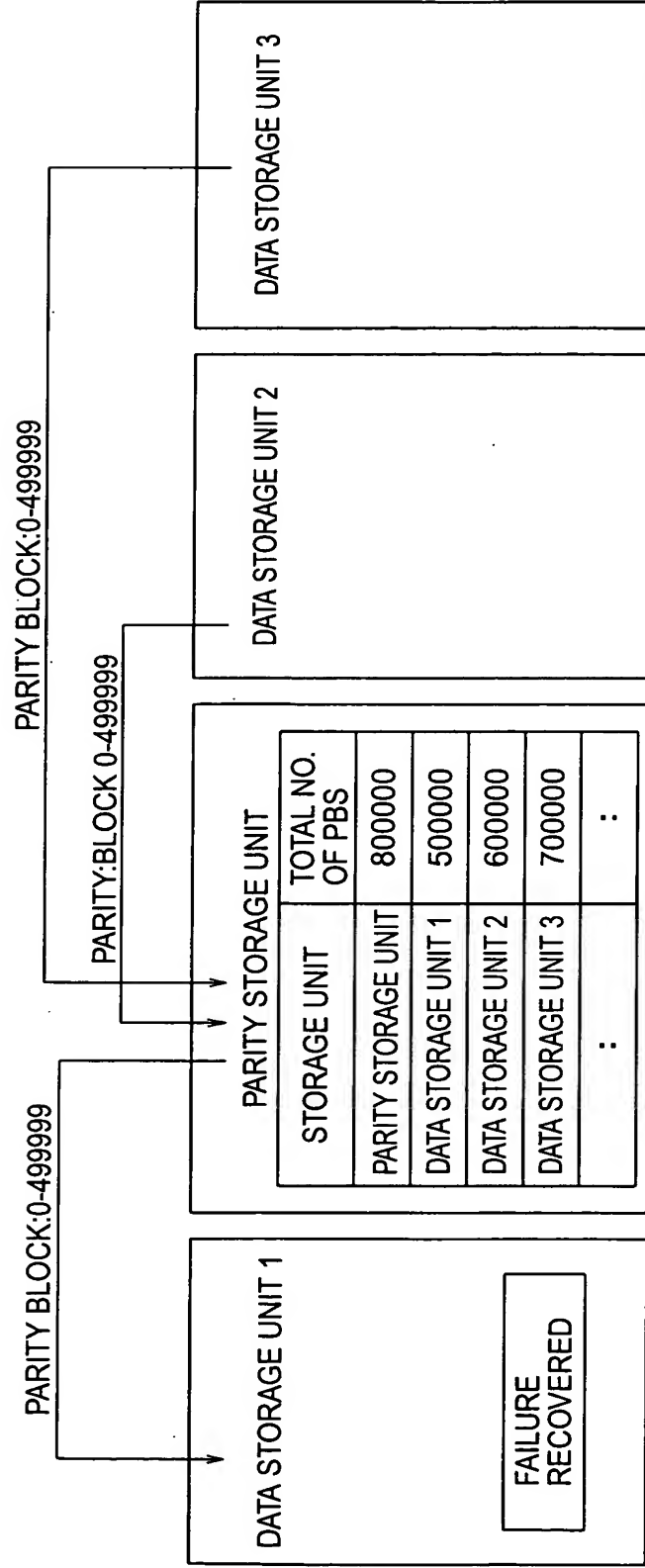


FIG. 30

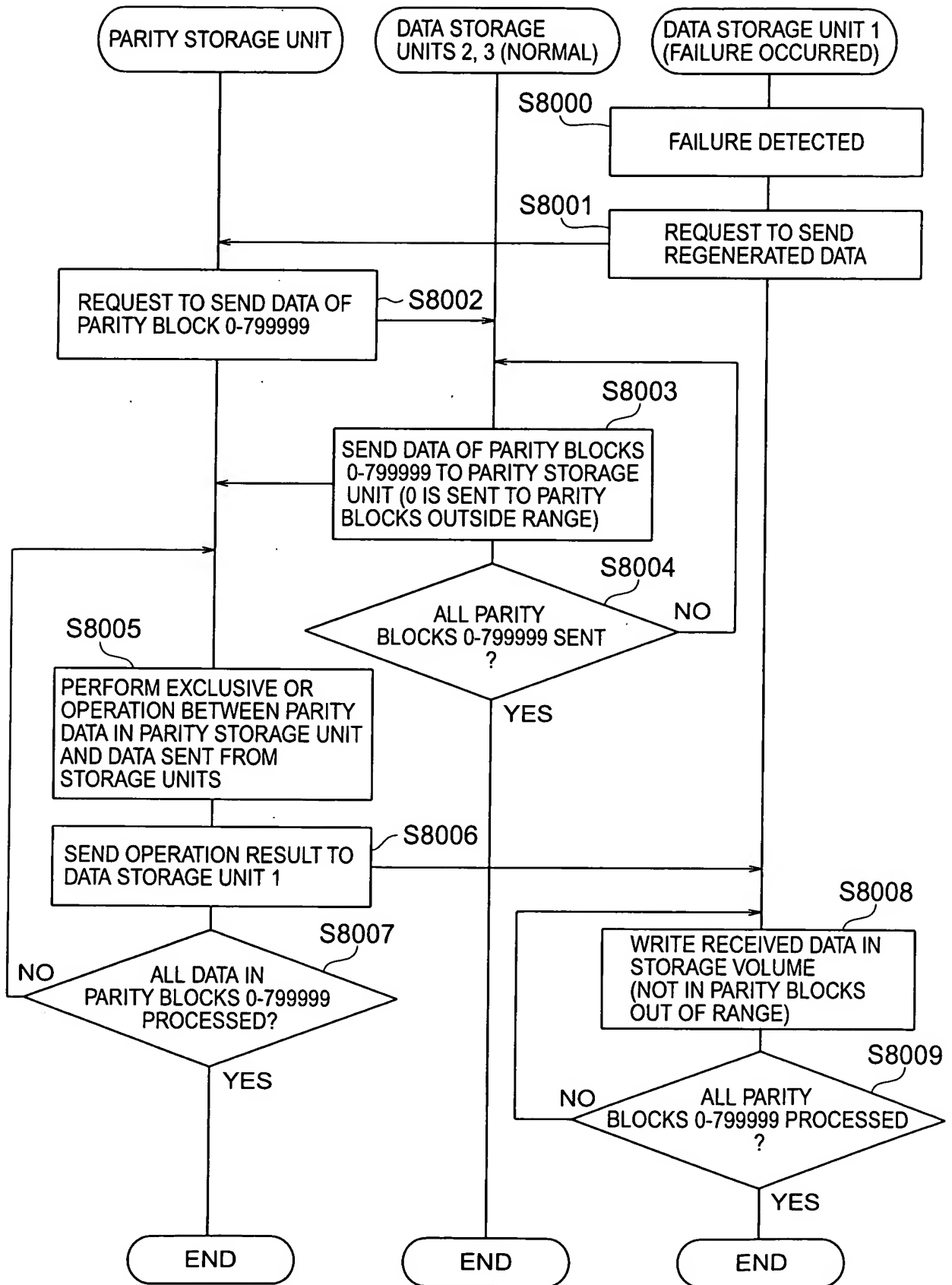


FIG. 31

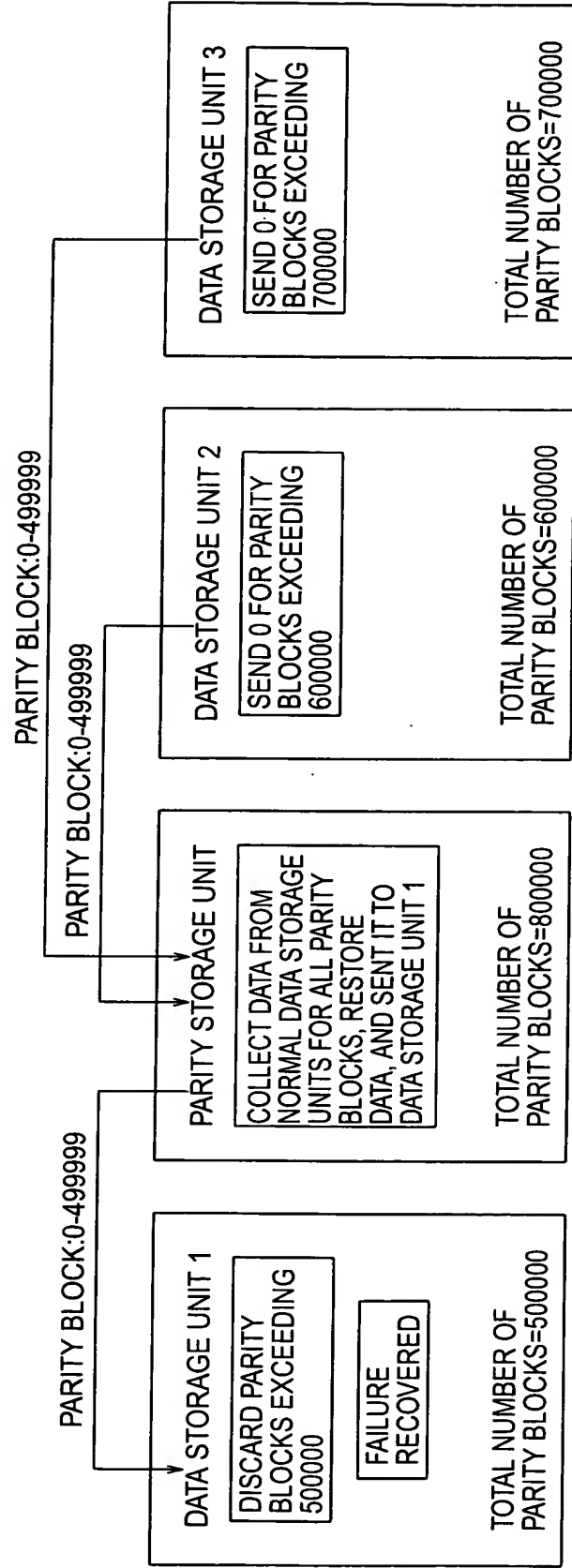


FIG. 32

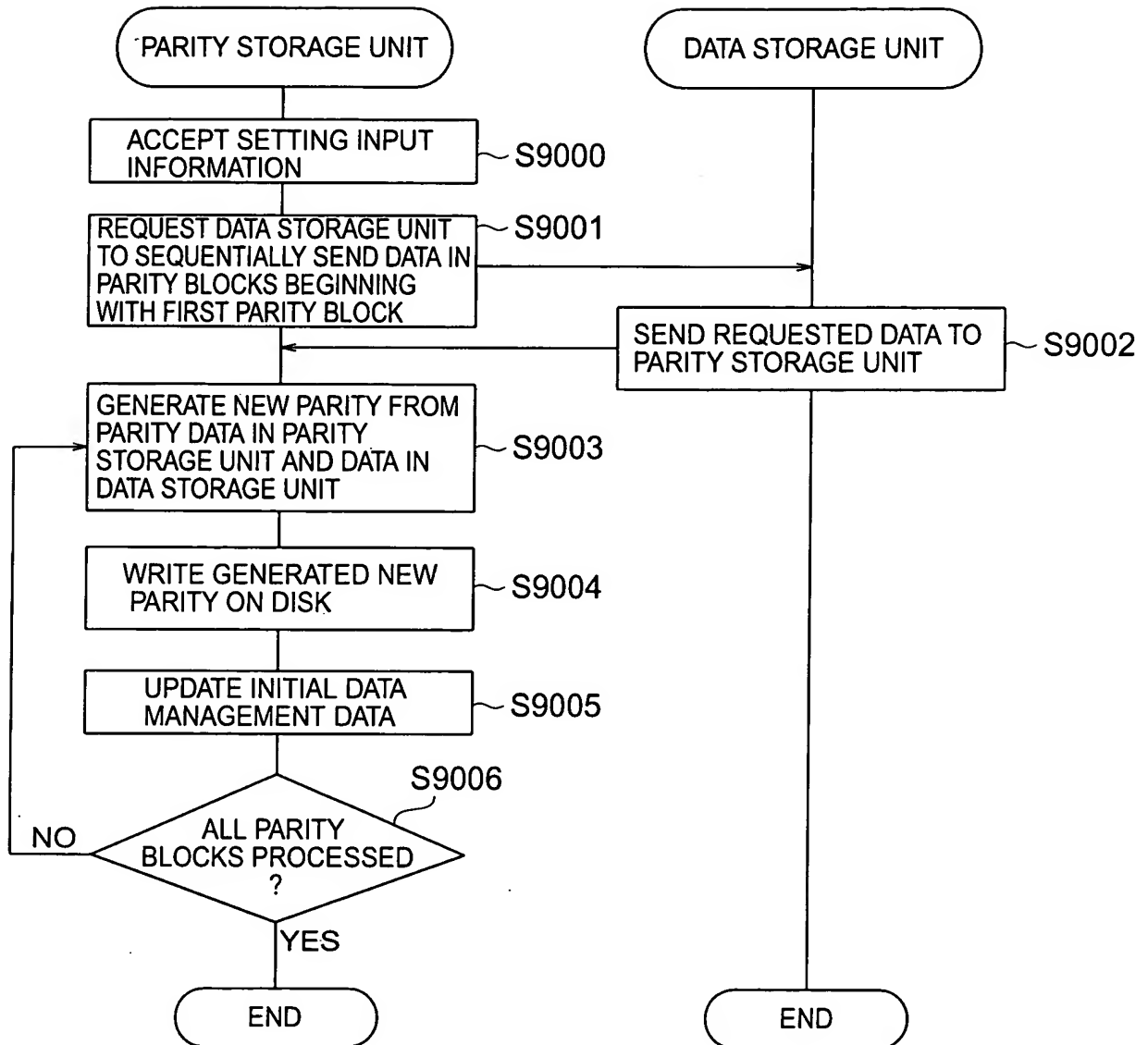


FIG. 33

PARITY BLOCK NUMBER	STATUS INFORMATION	DATA
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